Each

Dart Aerospace Ltd. Monday, 6/5/2006 7:47:48 AM Kim Johnston Úser: **Process Sheet** : DOUBLER Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 27374 **Estimate Number** : 11474 : D3140303 : NIA **Part Number** P.O. Number S.O. No. : NA : D3140.REV D1 : 6/5/2006 **Drawing Number** This Issue : N/A : NC **Project Number** Prsht Rev. : N/A : MACHINED PARTS : D1 First Issue Type **Drawing Revision** :NIA : 26798 Material Previous Run **Due Date** : 6/30/2006 Qty: 4 Um: Written By Checked & Approved By KJ/RF 02.11.06 New issue Comment Est. Rev B 06.04.18 New dwg rev. ecn781 EC 06.04.25 Waterjet EST rev.C EC **Additional Product** Job Number: Description: **Machine Or Operation:** Seq. #: M6061T6S063 6061-T6 .063 Sheet 1.0 Comment: Qty.: 2.9166 sf(s)/Unit Total: 11.6663 sf(s) Material: 6061-T6 (QQ-A-250/11) 0.063" thick (M6061T6S.063) Batch: M18556 2.0 WATER JET FLOW WATER JET Comment: FLOW WATER JET 1-Cut as per Dwg⁻D Dwg Rev: DI Prog Rev: 1 2-Deburr If necessary INSPECT PARTS AS THEY COME OFF MACHINE 3.0 Comment: INSPECT PARTS AS THEY COME OFF MACHINE QC8 SECOND CHECK 4.0 Comment: SECOND CHECK 5.0 HAND FINISHING1 HAND FINISHING RESOURCE #1

Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

Dart Aerospace Ltd

W/O:		WORK ORDER CHA	NGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
06-06-08	2	disvivoy to be done before stadine. move to step. 5.0 promon I charge.					adas
		property angle				F	

NCR:			WORK ORD	ER NON-CONFORMANO	E (NCR)			
		Description of NC		Corrective Action Section B	on Section B	Verification	Ammerical	
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector
				·				

Part No:	PAR #:	Fault Category:	NCR:	Yes No DQA:	Date: <u>06/06/15</u> .
NOTE: Date & initial all entries				QA: N/C Closed:	Date:

Date: User:

Monday, 6/5/2006 7:47:48 AM

Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: DOUBLER

Job Number: 27374

Part Number: D3140303

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

7.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock-

Location:2



8.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



Dart Aerospace Ltd

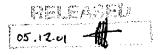
W/O:			WOF	RK ORDER CHANGES					
DATE	STEP	PR	OCEDURE CHAN	GE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approva QC Inspector
			WORK ORDE	R NON-CONFORMAN	CE (NC	2)			
NCR:						Ŋ 		T	
DATE	STEP	Description of NC Section A	Initial Design Mgr	Corrective Action Section B Action Description Design Mgr	Sign &			Approval Design Mgr	Approval QC Inspector
			Design mg	Design Wgi	Date				
				····					
					:				
Part No	o:	PAR #:	Fault Category:	NCR: `	es No	DQA: _		Date:	
NOTE: D	ate & initia	al all entries			QA: N/C C	losed:		Date:	

H:\forms\Quality Assurance\approved forms\NCRWO revC



DESIG	DS	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED M	APPROVED	DRAWING NO. REV. D
	M	7/1	D3140 SHEET 1 OF 7
DATE			TITLE SCALE
05.	11.23		DOOR NTS
Α		02.04.18	NEW ISSUE
В		03.01.23	REMOVE -65/-81/-83; ADD -301/-303
С		04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106°
D		05.11.23	ADD -103/-104/-105/-106; REMOVE -67

06.03.31 1.75 WAS 1.88; 4.75 WAS 4.13



DI

OTY OTY OTY OTY OTY OTY OTY OTY OS OS OS OS OS OS OS O			·					
X		1						
X		-06	-07	-08	-09	-10		
X	X							
X		X						
1			Х		'			
1				Х				
3 3 3 D3140-57 PAD 1 1 1 D3140-59 PAD 2 2 2 D3140-61 PAD 2 2 2 D3140-63 PAD 3 1 1 1 D3140-69 PAD 3 1 1 1 D3140-71 PAD 3 1 1 1 D3140-71 PAD 3 1 1 1 D3140-75 PAD 4 1 1 D3140-75 PAD 5 1 1 D3140-79 PAD 5 1 1 D3140-87 D0UBLER 5 1 D3140-91 DOUBLER 5 1 D3140-91 DOUBLER 5 1 D3140-95 DOUBLER 5 1 D3140-96 DOUBLER 5 1 D3140-98 DOUBLER 5 1 D3140-98 DOUBLER 5 1 D3140-98 DOUBLER 5 1 D3140-101 DOUBLER 5 1 D3140-103 DOUBLER 5 1 D3140-104 DOUBLER 5 1 D3140-105 DOUBLER 5 1 D3140-106 DOUBLER 5 1 D3140-241 DOUBLER 5 1 D3140-241 DOUBLER 5 1 D3140-303 DOUBLER 6 1 D3140-303 DOUBLER 7 1 D3140-303 DOUBLER 7 1 D3140-303 DOUBLER		<u> </u>	1'		X	<u></u>		······································
1	L	<u> </u>	<u></u> '	1	<u> </u>	X	D3140-10	DOUBLER ASSEMBLY
1	L	<u> </u>	'		<u> </u>			
D3140-61					1			
D3140-63			'	'				······································
1			<u> </u>	'	<u> </u>	1		
1	2	2	'	'				
1		<u> </u>	·			Ĺ		
1		<u>[</u> !	 -					
1		<u> </u>						
1		Ĺ <i>!</i>						1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1 1 D3140-85 ANGLE 1 1 1 D3140-87 DOUBLER 1 1 D3140-89 DOUBLER 1 D3140-91 DOUBLER 3 3 3 DOUBLER 1 D3140-95 DOUBLER 1 D3140-97 DOUBLER 1 D3140-98 DOUBLER 1 D3140-99 DOUBLER 1 D3140-101 DOUBLER 1 D3140-103 DOUBLER 1 D3140-104 DOUBLER 1 D3140-105 DOUBLER 1 D3140-106 DOUBLER 1 D3140-241 DOUBLER 1 D3140-301 DOUBLER 1 D3140-303 DOUBLER 2 D3140-303 DOUBLER 3 DOUBLER 4 D3140-303 DOUBLER 5 DO		!	+	-		<u> </u>	~	
1		<u> </u>	1_1_/	<u> </u>		<u> </u>		
1 1 1 D3140-89 DOUBLER D3140-91 DOUBLER D3140-92 DOUBLER D3140-95 DOUBLER D3140-97 DOUBLER D3140-97 DOUBLER D3140-98 DOUBLER D3140-99 DOUBLER D3140-101 DOUBLER D3140-103 DOUBLER D3140-104 DOUBLER D3140-105 DOUBLER D3140-106 DOUBLER D3140-106 DOUBLER D3140-241 DOUBLER D3140-301 DOUBLER D3140-303 DOUBLER		<u> </u>			1	1		
1 D3140-91 DOUBLER 1 D3140-92 DOUBLER 3 3 DOUBLER 1 D3140-95 DOUBLER 1 D3140-97 DOUBLER 1 D3140-99 DOUBLER 2 2 D3140-101 DOUBLER 1 D3140-103 DOUBLER 1 D3140-104 DOUBLER 1 D3140-105 DOUBLER 1 D3140-106 DOUBLER 1 D3140-241 DOUBLER INCONTROLLED COPY 1 D3140-301 DOUBLER SUBJECT MENDMENT 1 D3140-303 DOUBLER SUBJECT MENDMENT	1	1	<u> </u>		لـــــــــا			
1 D3140-92 DOUBLER 3 3 3 DOUBLER 1 D3140-95 DOUBLER 1 D3140-97 DOUBLER 1 D3140-98 DOUBLER 2 2 D3140-101 DOUBLER 2 2 D3140-101 DOUBLER 1 D3140-103 DOUBLER 1 D3140-104 DOUBLER 1 D3140-105 DOUBLER 1 D3140-106 DOUBLER 1 D3140-241 DOUBLER CINCONTROLLED D COPY 1 D3140-301 DOUBLER SUBJECT MENDMENT 1 D3140-303 DOUBLER SUBJECT MENDMENT					1	1 1		~
3 3 D3140-95 DOUBLER 1 D3140-97 DOUBLER 1 D3140-98 DOUBLER DOUBLER D3140-99 DOUBLER D3140-101 DOUBLER D3140-103 DOUBLER D3140-104 DOUBLER D3140-105 DOUBLER D3140-105 DOUBLER D3140-106 DOUBLER D3140-106 DOUBLER D3140-241 DOUBLER DOUBLER D3140-241 DOUBLER DOUBLER DA140-105 DOUBLER DA140-105 DOUBLER DA140-105 DOUBLER DOUBLER DA140-105 DOUBLER DA140-105 DOUBLER DOUBLER DA140-105 DA140-105 DOUBLER DA140-105 DA14		Ĺ	<u>[1 </u>			Ī		
1		Ĺ	<u> </u>	1 1				
1 D3140-98 DOUBLER 1 1 D3140-99 DOUBLER 2 2 D3140-101 DOUBLER 1 D3140-103 DOUBLER 1 D3140-104 DOUBLER 1 D3140-105 DOUBLER 1 D3140-106 DOUBLER 1 D3140-241 DOUBLER UNCONTROLLED D COPY 1 D3140-301 DOUBLER SUBJECT INDICENTAL OF TICE 1 D3140-303 DOUBLER SUBJECT INDICENTAL OF TICE		3						
1	11							
2 2 D3140-101 DOUBLER D3140-103 DOUBLER D3140-103 DOUBLER D3140-104 DOUBLER D3140-105 DOUBLER D3140-106 DOUBLER D3140-106 DOUBLER D COPY D		1						
1 D3140-103 DOUBLER CHOP COPY D D3140-104 DOUBLER CHOP COPY D D3140-105 DOUBLER CHOP COPY D D3140-105 DOUBLER CHOP COPY D D3140-106 DOUBLER CHOP COPY D D3140-106 DOUBLER CHOP COPY D COPY D D3140-241 DOUBLER CHOP COPY D COPY D D3140-301 DOUBLER CHOP COPY D COPY D D3140-301 DOUBLER CHOP COPY D D3140-303 DOUBLER CHOP COPY D D3140-303 DOUBLER CHOP COPY D						i		DOUBLER
1 D3140-104 DOUBLER TRAITION D 1 D3140-105 DOUBLER ENUMERRY 1 D3140-106 DOUBLER INCONTROLLED D COPY 1 1 D3140-301 DOUBLER SUBJECT MENDMENT 1 D3140-303 DOUBLER NOTICE R DER				2		/	D3140-101	DOUBLER
1 D3140-104 DOUBLER 1 D3140-105 DOUBLER 1 D3140-106 DOUBLER ENGINEERING 1 D3140-241 DOUBLER (INCONTROLLE) D COPY 1 1 D3140-301 DOUBLER SUBJECT INDICE 1 D3140-303 DOUBLER NOTICE 1 D3140-303 DOUBLER NOTICE			1			/	D3140-103	DOUBLER COPY
1 1 D3140-106 DOUBLER ENGINEER OF COPY 1 1 1 D3140-241 DOUBLER (INCONTROLLE) D COPY 1 1 1 D3140-301 DOUBLER SUBJECT MENDMENT 1 1 D3140-303 DOUBLER NOTICE REP.				1			D3140-104	DOUBLED 13
1 1 D3140-241 DOUBLER (INCONTROLLED COPTION OF THE NUMBER) 1 1 D3140-301 DOUBLER SUBJECT MENDMENT 1 1 D3140-303 DOUBLER NO NOTICE R DER /			1				D3140-105	DOUBLER No TRANS
1 1 D3140-241 DOUBLER UNCONTROLLED COT 1 1 1 D3140-301 DOUBLER SUBJECT 1 MENDMENT 1 1 D3140-303 DOUBLER NOTICE 1 R DER /				1		·	D3140-106	DOUBLER ENUIVELIAND COPY
1 1 D3140-301 DOUBLER SUBJECT MEDICAL NOTICE 1 1 D3140-303 DOUBLER NOTICE RDER /	1	1				'	D3140-241	DOUBLED CONTROLLED COLL
1 1 D3140-303 DOUBLER NA NOTICE	1		1					DOUBLER TOTAL
THE ROPER !		1		1			D3140-303	
180 by the state of the state o					5	5	MS20426AD3-4	RIVET 27314

Copyright © 2002 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN DS	DRAWN BY RF	DART AERO HAWKESBURY,	OSPACE LTD ONTARIO, CANADA
CHECKED	APPROVED J	DRAWING NO. D3140	REV. D SHEET 2 OF 7
DATE		TITLE	SCALE
05.11.23		DOOR	NTS



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77 MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006 MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS. FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM

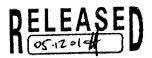


FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART	TOOL
D3140-05	B30-23000-01T
D3140-06	B30-23000-02T
D3140-07	B30-23000-03T
D3140-08	B30-23000-04T
D3140-57	B30-23000-57T
D3140-61	B30-23000-61T
D3140-63	B30-23000-63T
D3140-69	B30-23000-69T
D3140-71	B30-23000-71T
D3140-73	B30-23000-73T
D3140-75	B30-23000-75T
D3140-77	B30-23000-77T
D3140-79	B30-23000-79T
D3140-89	D3140-89T1
D3140-301	D3140-301T1
D3140-303	D3140-303T1

ALL DIMENSIONS IN INCHES





MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL



TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION

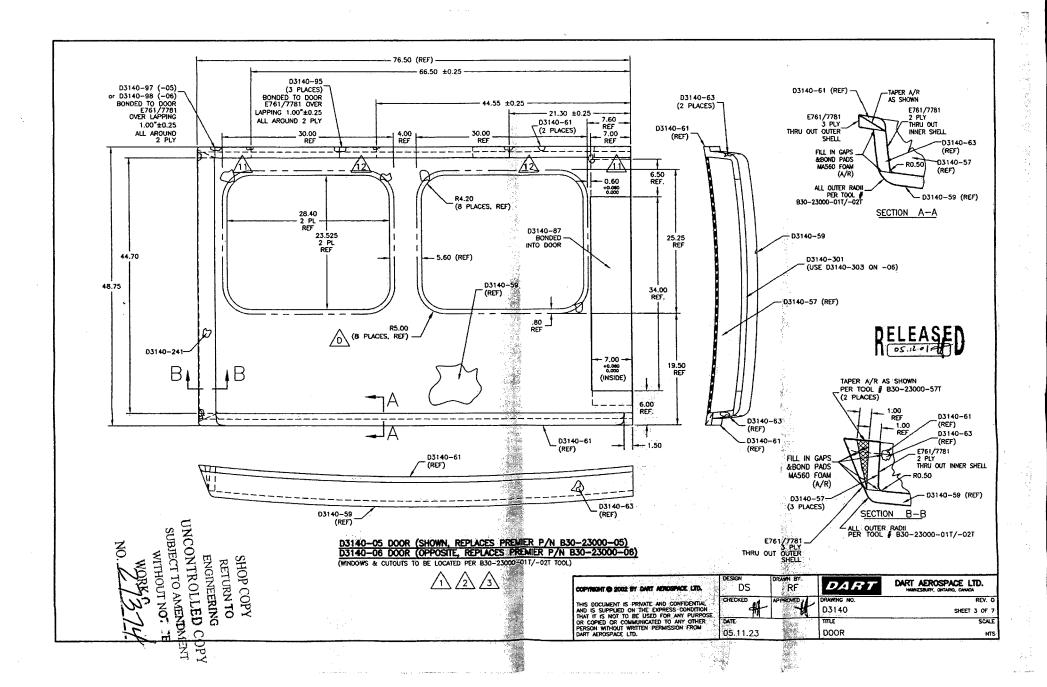
RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130

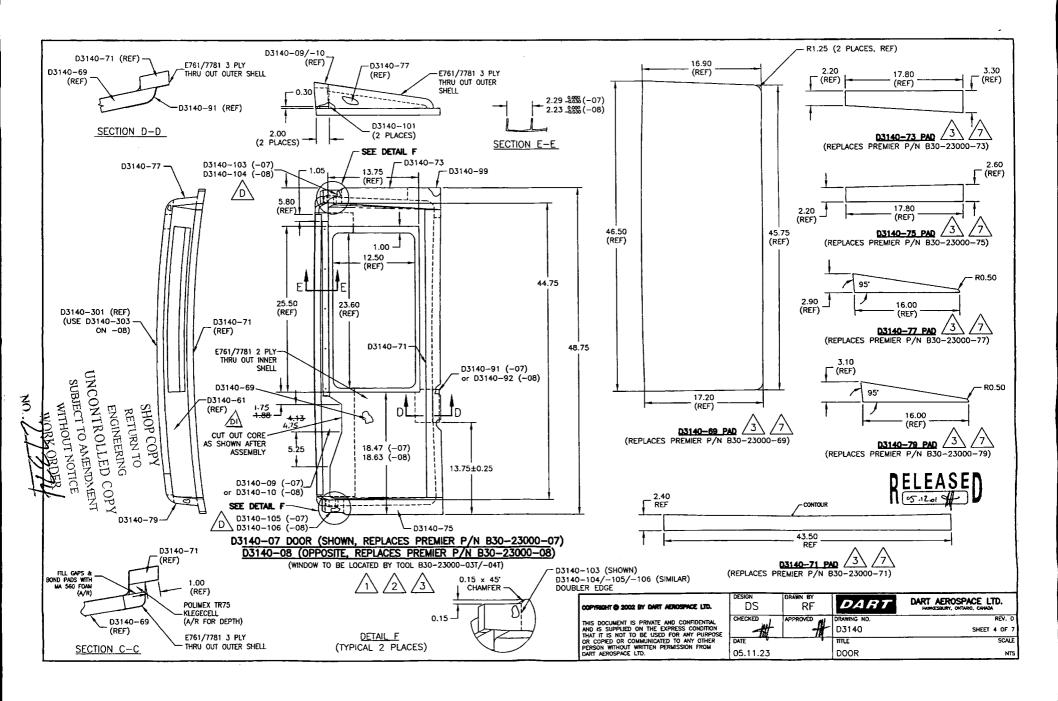
SHOP COPY **RETURN TO** ENGINEERING

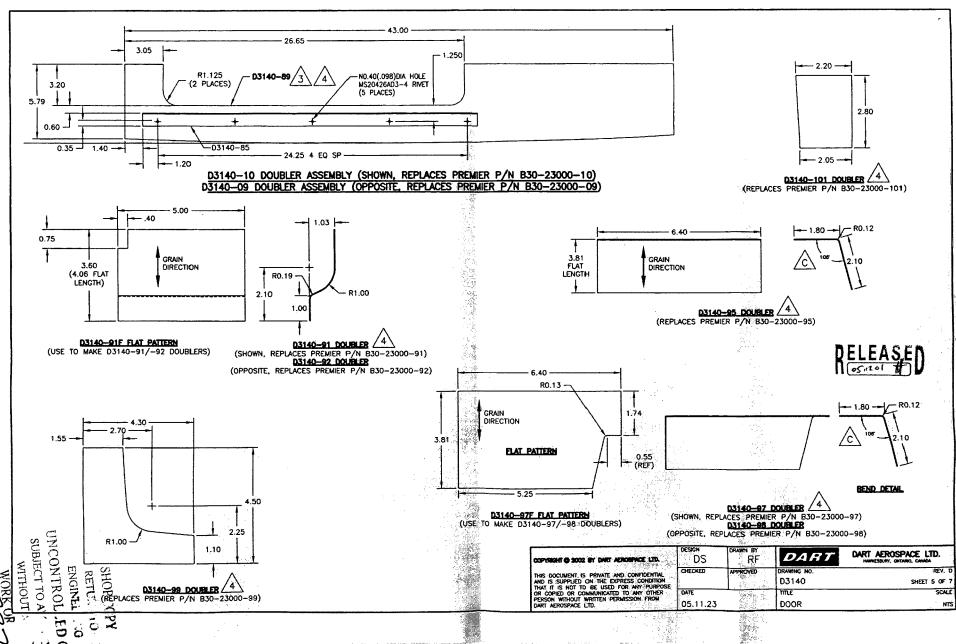
UNCONTROLLED COPY SUBJECT TO AMENDME INOTICE

Copyright © 2002 by DART AEROSPACE LTD

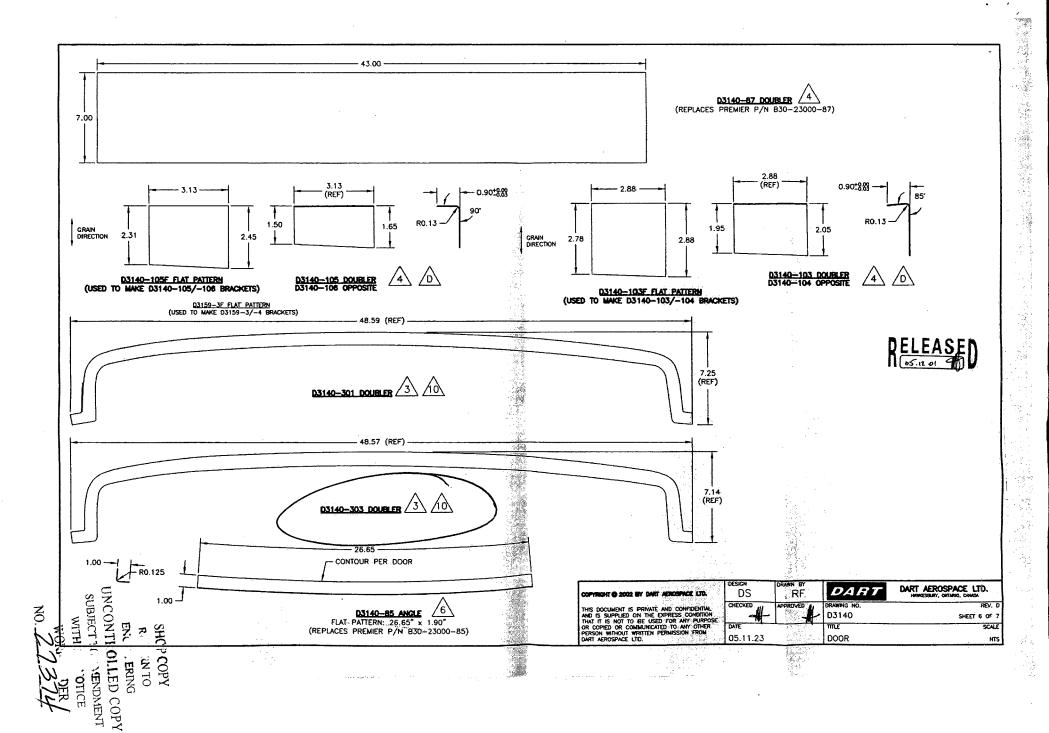
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

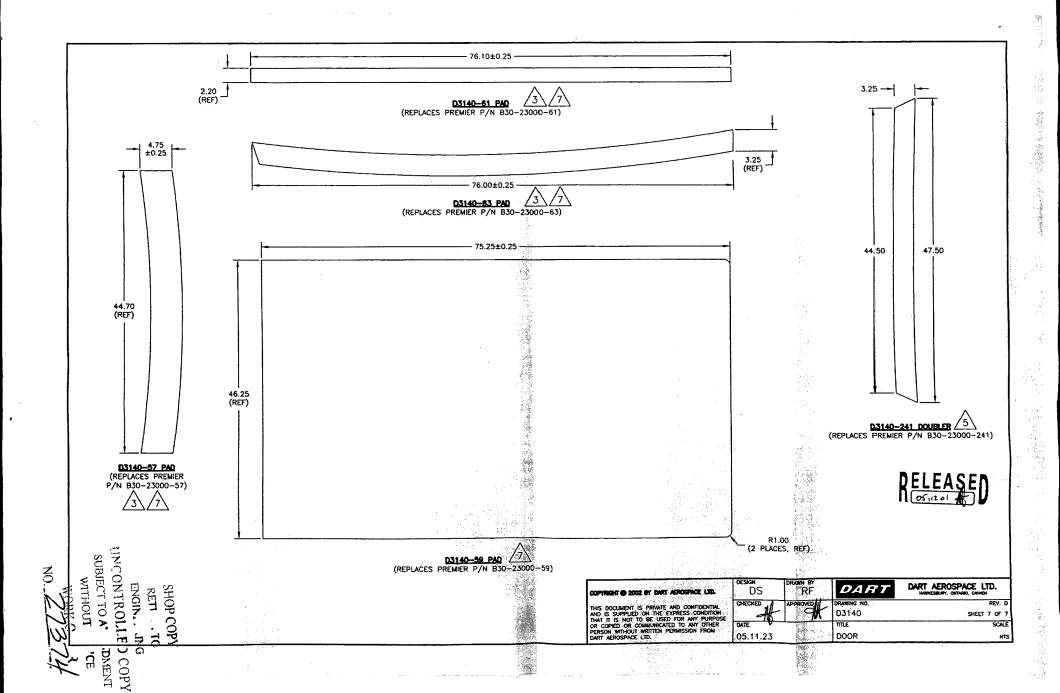






LD COPY 6





DART AEROS	SPACE LID				Work Order:		
Description:					Part Number:		
							Contraction of the Contraction o
nspection Dwg	: Rev:			_ !		Page	of 1
	FIRST	ARTICLE IN	·	 1	CKLIST otype		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comn	nents
€7.14	7/-0.030	7.14	1		Vern 1	measured	1 . 10
18,57	+/-0,030	48.50	J		Monsuring	TANK	
			<u> </u>		7	11/1/2	
							
						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
<u> </u>							
			· · · · · · · · · · · · · · · · · · ·				
							
				,			
	- 1						
5		,					<u>.</u>
						·	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	The community of						
	4.7						
			1				
Measured by:	MIL HIVE SEE	udited by:		Pro	totype Approv	al:	
Date: (4) Nb.07	Date:	06.06.0g		Da	te:	
Revil. Date		A-111 3 45 44 4 4 1 1 5 6	を (の数:4) ライル		Ravie	sed by A	prove
			PRO CONTRACTOR ON		KJ/JL		2010AG